



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/628,503	07/28/2000	Myoung Jun Song	K-191	3785

34610 7590 01/08/2004

FLESHNER & KIM, LLP
P.O. BOX 221200
CHANTILLY, VA 20153

EXAMINER

NGUYEN, JIMMY H

ART UNIT	PAPER NUMBER
----------	--------------

2673

DATE MAILED: 01/08/2004

21

Please find below and/or attached an Office communication concerning this application or proceeding.

Interview Summary

Application No.

09/628,503

Applicant(s)

SONG, MYOUNG JUN

Examiner

Jimmy H. Nguyen

Art Unit

2673

All participants (applicant, applicant's representative, PTO personnel):

(1) Jimmy H. Nguyen.

(3) _____.

(2) David Oren (Applicant's rep.).

(4) _____.

Date of Interview: 06 January 2004.

Type: a) ☒ Telephonic b) ☐ Video Conference
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.
If Yes, brief description: _____.

Claim(s) discussed: 1,2,5,8,12 and 26.

Identification of prior art discussed: Wu (USPN: 5,986,636).

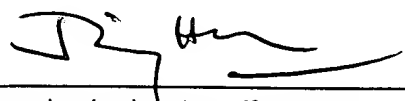
Agreement with respect to the claims f) ☒ was reached. g) ☐ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Discussed claims 1, 2, 5, 8, 12 and 26. Examiner agreed that the Wu reference fails to disclose the display code comprising a data-identifying recognition code that identifies a specific kind of the corresponding video signal display type information, and the information corresponding to the data-identifying recognition code. Examiner also agreed that the attached proposed amended claims 5 and 8 overcome the 35 USC 112, first paragraph.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.


Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Serial No. 09/628,503

Attorney Docket No. K-191

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An apparatus for interfacing video information, comprising:

a main body, which outputs a video signal and corresponding display type information, the display type information including a non-memory address recognition code that ~~does not correspond to a memory address for designating~~ identifies a specific kind of the corresponding display type information, and data corresponding to the non-memory address recognition code; and

a monitor, which detects a display type of the corresponding video signal in accordance with the display type information, and displays the video signal outputted from the main body in accordance with the detected display type.

2. (Currently Amended) A video interface, comprising:

a main body, which outputs a video signal through a video signal line, and outputs information relating to the video signal display type, the information relating to the video signal display type including a display code that designates the video signal display type, wherein the display code comprises a data-identifying recognition code that ~~does not correspond to a memory address for designating~~ identifies a specific kind of the

Serial No. 09/628,503

Attorney Docket No. K-191

corresponding video signal display type information, and the information corresponding to the data-identifying recognition code; and

a monitor, which detects the display type of the corresponding video signal in accordance with the display information, and displays the video signal outputted from the main body in accordance with the detected display type.

3. (Cancelled)

4. (Previously Presented) An apparatus for interfacing video information in a computer system, comprising:

a main body, which outputs a video signal, a horizontal sync signal, a vertical sync signal, and video signal display type information identifying a video type of the video signal, the video signal display type information including a display code that designates the video signal display type, wherein the video signal display type information is divided to comprise divided display type information having at least two parts, and wherein the divided display type information is embedded into the horizontal sync signal and at least one of R, G, and B video signals forming the video signal, respectively; and

a monitor, which detects the type of display for the corresponding video signal in accordance with the display type information, and displays the outputted video signal in accordance with the detected display type.

5. (Currently Amended) A video interface, comprising:

Serial No. 09/628,503

Attorney Docket No. K-191

a main body, which provides information relative to a display type of a video signal, the information being divided to comprise divided display type information having at least two parts, wherein a first part of the divided display type information is embedded into ~~one of a horizontal sync signal and a vertical sync signal~~, and wherein a second part of the divided display type information is embedded into at least one of R, G, and B video signals comprising the video signal, respectively, and outputs the video signal, the horizontal sync signal, and ~~the a~~ vertical sync signal; and

a monitor which detects the display type of the corresponding video signal in accordance with the display type information outputted from the main body, and displays the video signal in accordance with the detected display type, wherein the information relative to the display type comprises a display code that designates the video signal display type.

Claims 6-7. (Cancelled)

8. (Currently Amended) A method of interfacing video information, comprising: transmitting video signal display type information, horizontal and vertical sync signals, and a video signal from a main body to a monitor, the video signal display type information being divided to comprise divided display type information having at least two parts, and wherein a first part of the divided display type information is embedded into ~~one of the horizontal sync signal and the vertical sync signal~~, and wherein a second part of the divided display type information is embedded into at least one of R, G, and B video signals

Serial No. 09/628,503

Attorney Docket No. K-191

comprising the video signal, respectively, the video information display type information including a display code that designates a video display type; and

detecting a display type of the video signal transmitted from the main body using the video signal display type information, and displaying the video signal to match the display type.

9. (Previously Presented) The method as claimed in claim 8, wherein the display type information comprises a recognition code for designating a kind of the corresponding display type information, and data corresponding to the recognition code.

10. (Original) The method as claimed in claim 9, wherein the recognition code is composed of two bits.

11. (Original) The method as claimed in claim 9, wherein the data includes a number of dots in a horizontal period, a number of backporches in the horizontal period, a number of horizontal lines in a vertical period, and a number of horizontal lines of a backporch in the vertical period.

12. (Currently Amended) A method of interfacing video information, comprising: transmitting display type information of a video signal in communication data, along with horizontal and vertical sync signals from a main body to a monitor, the display type information comprising a display code that designates a video signal display type,

Serial No. 09/628,503

Attorney Docket No. K-191

wherein the display code comprises a data-identifying recognition code that ~~does not correspond to a memory address for designating~~ identifies a specific kind of the corresponding display type information, and data corresponding to the data-identifying recognition code; and

detecting a display type of the transmitted video signal using the display type information, and displaying the video signal to match the display type.

13. (Original) The method as claimed in claim 12, wherein the display type information is synchronized with the vertical sync signal.

14. (Previously Presented) A method of interfacing video information, comprising:

dividing display type information of a video signal into at least two parts;

transmitting divided display type information of the video signal in each of a horizontal sync signal and the video signal, respectively, from a main body, the display type information including a display code that designates the video signal display type; and

detecting a display type of the transmitted video signal using the display type information.

15. (Original) The method as claimed in claim 14, wherein the main body synchronizes the display type information with the vertical sync signal.

Serial No. 09/628,503

Attorney Docket No. K-191

16. (Previously Presented) The method as claimed in claim 14, further comprising transmitting a vertical sync signal from the main body to the monitor, wherein the vertical sync signal comprises a clock pulse for recognizing the display type information.

17. (Previously Presented) A method of interfacing video information, comprising:

dividing display type information of R, G, B video signals, the display type information including a recognition code that designates the video signal display type and data corresponding to the recognition code;

embedding the divided display type information into a horizontal sync signal and at least one of the R, G, and B video signals, respectively;

transmitting to a monitor the horizontal sync signal, a vertical sync signal, and the video signals;

decoding and reassembling the display type information; and

detecting a display type of the transmitted video signal using the reassembled display type information.

18. (Original) The method as claimed in claim 17, wherein the main body synchronizes the display type information with the vertical sync signal.

19. (Original) The method as claimed in claim 17, wherein a clock pulse for recognizing the display type information is included in the vertical sync signal.

Serial No. 09/628,503

Attorney Docket No. K-191

Claims 20-21. (Cancelled)

22. (Currently Amended) The ~~device~~ apparatus of claim 1, wherein the display information comprises a number of dots for a horizontal period, a number of backporches for the horizontal period, a number of horizontal lines for a vertical period, and a number of horizontal lines of a backporch for the vertical period.

23. (Currently Amended) The ~~device~~ apparatus of claim 1, wherein the video signal comprises a RGB signal, a horizontal sync signal, and a vertical sync signal.

24. (Currently Amended) The ~~device~~ apparatus of claim 1, wherein the display information is further transmitted in serial data.

25. (Cancelled)

26. (Currently Amended) An apparatus for interfacing video information, comprising:

a computer transmitting horizontal and vertical sync signals, serial data signal and serial clock signals through a display data channel, and a video signal; and

a monitor receiving the horizontal and vertical sync signals, serial data signal and a serial clock signal through the display data channel, and the video signal, wherein a display type information of the video signal, including a display code that designates the

Serial No. 09/628,503

Attorney Docket No. K-191

video signal display type, is included in one of the serial data signal of the display data channel and the horizontal sync signal, wherein the display code comprises a non-memory address data-identifying recognition code ~~that does not correspond to a memory address for designating~~ identifying a specific kind of the corresponding video signal display type data, and data corresponding to the non-memory address data-identifying recognition code.

27. (Previously Presented) A method of interfacing video information, comprising:

dividing display type information of a video signal, the display type information including a display code that designates a video signal display type;

embedding the divided display type information into at least one of a horizontal sync signal, an R video signal, a G video signal, and a B video signal;

embedding a clock pulse for recognizing the display type information in a vertical sync signal;

transmitting the horizontal sync signal, the R video signal, the G video signal, the B video signal, and the vertical sync signal from a main body to a monitor; and

detecting the video signal display type using the display type information.

28. (Previously Presented) The method of claim 27, wherein the display code comprises a recognition code that designates the video display type and data corresponding to the recognition code.